

BIOMETRICS

DEPARTMENT OF DEFENSE

Presented by
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DoD BIOMETRICS PROGRAM OVERVIEW

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Biometrics Panel

- “DoD Biometrics Program Overview”, Carolyn Bainer, Acting Director, DoD Biometrics Management Office
- “Biometrics Test Strategy”, Paul Howe, Deputy Director, DoD Biometrics Fusion Center
- “Policy & Strategic Planning”, Shelby Fowler, Biometric Policy Subject Matter Expert, MITRE
- “DoD Biometrics Protection Profile”, Mike Byrne, Protection Profile Subject Matter Expert, STS International
- "Biometrics & Common Access Card (CAC)", Robert Kocher, Smart Card/Biometric Subject Matter Expert, STS

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DoD Biometrics Program Vision

Biometrics will be the universally empowering technology that ensures the right person, with the right privileges, has access at the right time to support warfighting dominance.

Positive Identification







DoD Biometrics Program

Mission

The Biometrics Management Office (BMO) – as the DoD proponent for biometrics -- will lead, consolidate, and coordinate the development, the adoption and the institutionalization of biometric technologies in CINCs/Services/Agencies, to enhance Joint Service interoperability and warfighter operational effectiveness.


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Biometrics Employment

Biometrics can enable/enhance:

- Information Assurance
- POW and Refugee Processing
- Weapons Control
 - Sensitive Weapons
 - Weapons of Mass Destruction
- Battlefield Sensitive Area Access
- Force Protection & Access Control
- Intelligence
 - War Criminals
- Coalition Operations
- Section 508
- Common Access Card
- Healthcare

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Focus on Commercial Technology

Technology that meets the following requirements:

- COTS
 - Approved by BMO
 - Low cost (\$50 or less)
 - Integrates CBT
 - Minimum bandwidth impact
 - Operates in the office
 - Operates in MOPP 4
 - Common Criteria Compliant
 - NIAP Certified
 - Standards of Compliance

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Standards of Compliance

Existing standards that DoD can leverage off of industry:

BioAPI CBEFF X9.84 X.509

DoD requirements:

Encryption – Storage and/or transmission


Liveness – Standardized definition

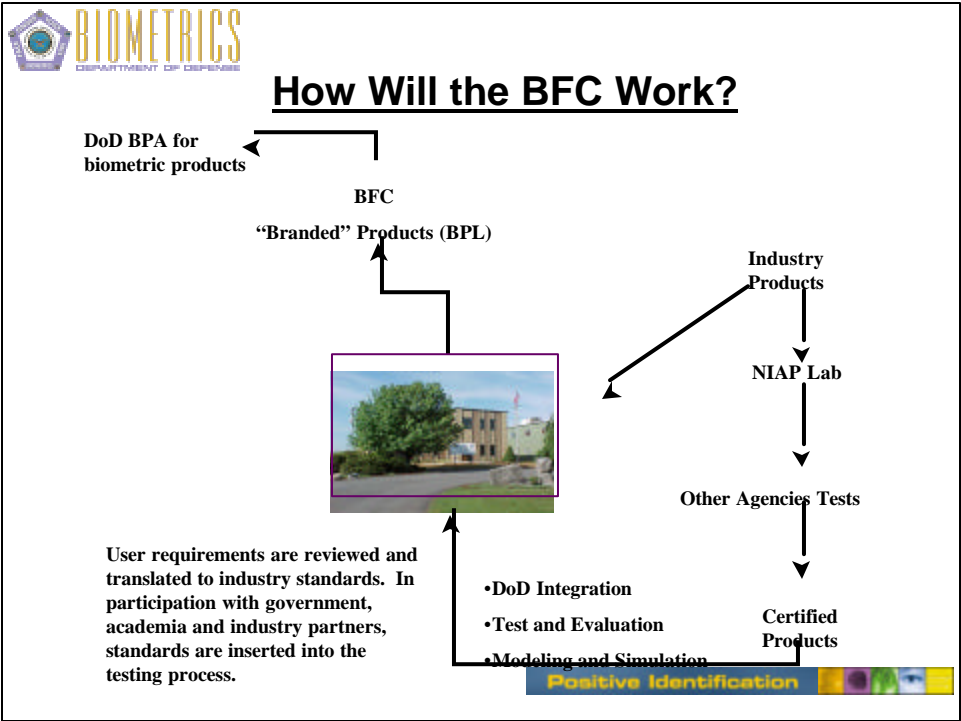
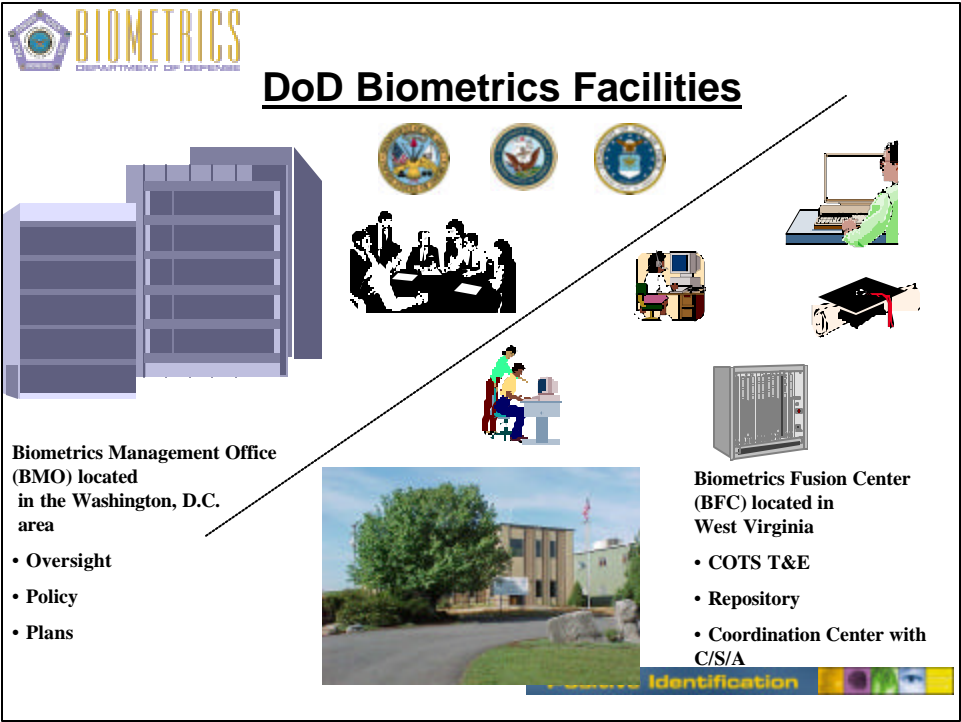
Template Storage – No 3rd party will store DoD Templates

NIAP – Protection Profile (Low, Medium, High)

Section 508 – Support equal access for disabled

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On-Going Efforts

- **Policy**
- **Protection Profile**
- **Test & Evaluation**
- **CAC Biometrics**
- **Education**
- **Quick Looks → Pilots**
- **Cost Benefit Analysis**

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Challenges

- **Broad, cross platform support for devices**
 - **Biometric drivers for non-windows platforms**
 - **Plug and play devices and software modules**
- **BioAPI validation suite for all platforms**
- **Integration of biometrics with PKI & CAC**
- **Low power sensors for wireless devices**
- **Faster enrollment and response time including processing and matching**

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Challenges

- **Small, compact translation software to allow multiple vendor use of a single template**
- **Rugged devices for harsh environments**
- **Template ageing**
- **Solid liveness test for all biometric technologies**
- **Verified value of using multimodal (preferred combinations of biometrics) vs single mode for unclassified and classified systems**

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Summary

- **Biometrics Employment**
- **Focus on Commercial Technology**
- **Standards of Compliance**
- **Challenges**

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